

What is claimed is:

1. A radio video transmission device for encoding and
5 packetizing video data and radio-transmitting a packet, the
radio video transmission device being configured such that
serial number information indicating the order of transmission
of the packet is added to the packet.

10 2. A signal generation device for encoding and
packetizing video data,

wherein

a packet including information obtained by encoding a
video signal in units of a video signal corresponding to a
15 predetermined number of vertical periods is generated, and
serial number information indicating the order of
generation of the packet is added to the packet in the order in
which the packet is generated.

20 3. A signal generation device according to claim 2,
wherein

a flag indicative of a header portion of the packet is
added to the header portion of the packet.

25 4. A radio video reception device for radio-receiving
video data which is encoded and packetized, comprising:

means for detecting serial number information added to a packet to thereby determine absence of the packet;

a memory for storing the video data which have been decoded corresponding to at least one field;

5 means for sequentially updating received video data which are received normally and recording the video data in the memory; and

control means for outputting the video data stored in the memory in place of video data being received, when packet
10 absence is determined.

5. A signal decoding device for decoding into a video signal a signal contained in a packet which is received through radio communication, comprising:

15 a packet absence detection circuit for detecting serial number information added to the packet which is radio-received to thereby determine absence of the packet;

a decoding circuit for decoding the radio-received packet into a video signal; and

20 a memory for storing the video signal,
wherein
when absence of the packet is not detected in the packet absence detection circuit, at least a portion of the video signal which is decoded in the decoding circuit is stored in
25 the memory, and

when absence of the packet is detected in the packet absence detection circuit, the video signal stored in the memory is output.

5 6. A signal decoding device according to claim 5,
comprising:

a flag extraction circuit for extracting a flag indicative of a header portion of a transmission signal added to the header portion of the radio-received transmission signal and
10 outputting a reference signal at timing of extracting the flag,
wherein the decoding circuit decodes a signal contained in the packet at timing in accordance with the reference signal output from the flag extraction section.

15 7. A radio video transmission/reception system comprising a radio video transmission device according to claim 1 and a radio video reception device according to claim 4.

8. A signal generation/decoding device comprising a
20 signal generation device according to claim 2 and a signal decoding device according to claim 5.